

31 August 2007

Mr. Dane Finerfrock
Executive Secretary
Utah Radiation Control Board
State of Utah Department of Environmental Quality
168 North 1950 West
P.O. Box 144850
Salt Lake City, UT 84114-4850

**Subject: Geosynthetic Clay Liner Hydration Demonstration
 Letter Report
 Denison Mines Corporation
 White Mesa Mill, Cell 4A
 Blanding, Utah**

Dear Mr. Finerfrock,

Geosyntec Consultants (Geosyntec) is pleased to submit to the Utah Department of Environmental Quality (UDEQ), on behalf of Denison Mines (USA) Corp (DMC), this letter report summarizing the results of the hydration of geosynthetic clay liner (GCL) under field conditions at the subject site. This letter report summarizes the results of the GCL demonstration outlined in the Geosyntec letter to the UDEQ "Revised Geosynthetic Clay Liner Hydration Demonstration Work Plan," dated 27 March 2007.

OBJECTIVES

The objective of this letter report is to summarize the results of field and laboratory testing associated with the GCL hydration demonstration conducted at the DMC White Mesa Mill, Cell 4A site located near Blanding, UT. In addition, this letter report presents data associated with hydraulic conductivity testing of four GCL samples with different moisture content levels using pH 1 permeant.

METHODOLOGY

Field Demonstration

Three separate field demonstrations, along with associated laboratory testing, were conducted to evaluate the hydration required for GCL performance. Installation of each of the three field demonstrations was observed by Geosyntec and DMC personnel. Comanco Environmental

Corporation (Comanco), the geosynthetic installer for the Cell 4A project, installed the field demonstration materials in accordance with Section 02772 of the Technical Specifications and the Construction Quality Assurance (CQA) Plan. GCL used for this work is CETCO Bentomat ST (woven / nonwoven geotextile encased GCL). TRI Environmental (TRI) performed the laboratory testing. The same panel of geomembrane and the same roll of GCL were used in each of the three field demonstrations. Each of the three field demonstrations is discussed below.

Field demonstration 1 (FD-1) involved the installation of a GCL panel approximately 15 feet (ft) wide by 10 ft long overlying a portion of the existing soil subgrade in the northeast corner of Cell 4A, near the access ramp to the bottom of the cell (Photo 1, Attachment A). The GCL panel was installed with the woven geotextile side facing up and the nonwoven geotextile side facing down, directly overlying the existing soil subgrade, with no preparation of the subgrade soils or GCL. The soil subgrade was desiccated (Photo 2, Attachment A) and very dry at the surface. The GCL panel was covered with a panel of 60-mil thick high density polyethylene (HDPE) geomembrane extending past the GCL panel by a minimum of 2 ft in all directions. The HDPE geomembrane was placed with the white surface facing up, black surface against the GCL (Photo 3, Attachment A). The up-slope edge of the geomembrane was secured in an approximately 8 inch (in) by 6 in anchor trench and the trans-gradient and cross-gradient edges continuously covered by sand bags (Photo 4, Attachment A). FD-1 was installed on 24 May 2007 and was terminated on 14 June 2007. Upon completion of FD-1, the GCL panel was removed from under the geomembrane and discarded.

Field demonstration 2 (FD-2) involved the installation of a GCL panel approximately 15 feet (ft) wide by 10 ft long beneath the same HDPE geomembrane panel from FD-1 at the same location (HDPE geomembrane panel was not removed from anchor trench, just flipped back). The GCL panel was installed with the woven geotextile side facing up and the nonwoven geotextile side facing down, directly overlying the existing soil subgrade. The second GCL panel was installed after hydrating the subgrade soil and was covered by the HDPE geomembrane panel (Photos 5, Attachment A). The HDPE geomembrane panel was placed with the white surface facing up, black surface against the GCL and hydrated (Photo 6, Attachment A). All four sides of the HDPE geomembrane panel were secured in an approximately 8 in by 6 in anchor trench. FD-2 was installed on 10 July 2007 and terminated on 14 July 2007. Upon completion of FD-2, the GCL panel was removed from under the geomembrane panel and discarded.

Field demonstration 3 (FD-3) involved the installation of a GCL panel approximately 15 feet (ft) wide by 10 ft long beneath the same HDPE geomembrane panel from FD-1 and FD-2 at the same location (HDPE geomembrane panel was not removed from anchor trench, just flipped back).

The GCL panel was installed with the woven geotextile side facing up and the nonwoven geotextile side facing down, directly overlying the existing soil subgrade, with no preparation of the subgrade soils. The third GCL panel was directly hydrated by spraying the top surface of the GCL panel with a water truck. Water was applied in a short burst (5 seconds) from the water truck such that the GCL was visibly wet. The HDPE geomembrane panel was placed with the white surface facing up, black surface against the GCL. All four sides of the HDPE geomembrane panel were secured in an approximately 8 in by 6 in anchor trench. FD-3 was installed on 18 July 2007 and terminated on 19 July 2007. The field demonstration materials were removed from the Cell during grading for installation of the Cell 4A liner system.

Laboratory Testing

Prior to installation of the GCL for FD-1, six samples were collected and sent to TRI for moisture content testing.

The following sections describe the laboratory testing associated with each of the three field demonstrations.

FD - 1

Three (3) soil samples were collected from the top 3 inches of soil prior to installation of the GCL. These soil samples were placed in sealed plastic bags and shipped to TRI for moisture content testing in accordance with ASTM D 2216.

Six (6) approximately 12-inch square samples of the GCL were collected by DMC personnel after one, two, and three weeks of field demonstration material installation. Samples were collected after removing the sand bags and folding the geomembrane back over the anchor trench. Sample locations are shown on the field forms included in Attachment B. Samples were placed in plastic bags, sealed tightly, shipped to TRI, and tested in accordance with ASTM D 5993 and ASTM D 2216. Unfortunately, samples from the third week were lost in shipping and never located. Sampling forms and field logs are included in Attachment B. Sampling forms document: date, time, weather, subgrade and sample condition, sample id's, locations, and descriptions, and shipping information. Surface water leakage was not observed.

FD - 2

Three (3) soil samples were collected from the top 3 inches of soil prior to installation of the GCL. These soil samples were placed in sealed plastic bags and shipped to TRI for moisture content testing in accordance with ASTM D 2216.

Six (6) approximately 12-inch square samples of the GCL were collected by DMC personnel after one week of field demonstration material installation. Samples were collected after removing soil from three sides of the anchor trench and folding back the geomembrane over remaining anchor trench. Sample locations are shown on the field forms included in Attachment B. Samples were placed in plastic bags, sealed tightly, shipped to TRI, and tested in accordance with ASTM D 5993 and ASTM D 2216. Sampling forms and field logs are included in Attachment B. Sampling forms document: date, time, weather, subgrade and sample condition, sample id's, locations, and descriptions, and shipping information. Surface water leakage was not observed.

FD - 3

Six (6) approximately 12-inch square samples of the GCL were collected by DMC and Geosyntec personnel after one day of field demonstration material installation. Samples were collected after removing soil from three sides of the anchor trench and folding back the geomembrane over remaining anchor trench. Sample locations are shown on the field forms included in Attachment B. Samples were placed in plastic bags, sealed tightly, shipped to TRI, and tested in accordance with ASTM D 5993 and ASTM D 2216. Sampling forms and field logs are included in Attachment B. Sampling forms document: date, time, weather, subgrade and sample condition, sample id's, locations, and descriptions, and shipping information. Surface water leakage was not observed.

GCL Hydraulic Conductivity Testing

Four samples of GCL were hydrated in the laboratory to 50%, 75%, 100%, and 140% moisture contents. Each sample was loaded to a normal stress of 5 psi and immediately permeated by a pH 1 liquid.

RESULTS

The following sections describe the results of laboratory testing for each of the field demonstrations.

FD-1

Average soil subgrade sample results indicated that the soil moisture content was approximately 12.3%. Test results are presented in Attachment C.

The GCL moisture content, in its dry state, was 14.0 percent. GCL sample results indicated an increase in the GCL moisture content from 14% to 22.8% in the first week and from 22.8% to 26.3% in the second week. The samples collected in the third week were lost in shipping and not recovered; therefore no testing results are available. Test results are presented in Attachment C.

FD-2

Average soil subgrade sample results, after moisture conditioning, indicated that the soil moisture content was approximately 25.8%. Test results are presented in Attachment C.

GCL sample results indicated an increase in the GCL moisture content from 14% to 26.0% in the first week. Test results are presented in Attachment C.

FD-3

GCL sample results indicated an increase in the GCL moisture content from 14% to 97.6% in the first day. Test results are presented in Attachment C.

GCL Hydraulic Conductivity Testing

The results of the Hydraulic Conductivity Testing are as follows:

| Hydration of GCL Sample | Approximate Initial Permeability | Approximate Permeability after One Half Pore Volume | Approximate Permeability after One Pore Volume | Approximate Permeability after Two Pore Volumes |
|-------------------------|----------------------------------|---|--|---|
| 50% | 1.0×10^{-9} | 2.0×10^{-9} | 1.2×10^{-8} | 3.0×10^{-8} |
| 75% | 6.0×10^{-10} | 3.0×10^{-9} | 9.0×10^{-9} | 2.5×10^{-8} |
| 100% | 1.2×10^{-9} | 4.5×10^{-9} | 1.0×10^{-8} | 3.5×10^{-8} |
| 140% | 8.0×10^{-10} | 4.0×10^{-9} | 1.2×10^{-8} | 4.5×10^{-8} |

Test results are presented in Attachment C.

DISCUSSION

The pre-installation moisture content of the GCL is lower than the as-manufactured GCL test results (samples collected at the manufacturing facility) likely due to drying during shipment and storage at the site.

Weather conditions during the demonstrations were typical for southeast Utah (Attachment D) with low humidity and high temperatures likely contributing to the reduced natural hydration time of GCL. Based on the field demonstration and associated laboratory testing, hydration of the GCL was most expediently accomplished with direct watering (spraying) of the surface of the GCL prior to placement of the overlying geomembrane. This methodology results in a moisture content of approximately 100%.

The UDEQ requirement outlined in the Design Approval letter dated 25 June 2007 is that the GCL be hydrated to a level of 140% moisture content. Since the field demonstration test results did not attain the 140% hydration level, hydraulic conductivity testing was performed on four samples of GCL hydrated to 50%, 75%, 100%, and 140% moisture content. The results of the hydraulic conductivity testing indicate that each of the four moisture content GCL samples exhibit low hydraulic conductivity in the presence of pH 1 permeant during the first ½ pore volume of flow through the GCL. Subsequent to the first ½ pore volume, the hydraulic conductivity begins to increase, however remains lower than approximately 5.0×10^{-8} cm/sec at 2 pore volumes.

To evaluate the performance of the GCL, based on the hydraulic conductivity data presented herein, an analysis of the anticipated flow through the GCL with time will be discussed. The following equation will be used:

$$Q = kiA \quad \text{(Equation 1)}$$

Where:

Q = flow through the GCL (cm³/sec)

k = permeability of the GCL, from test data (cm/sec)

i = hydraulic gradient

A = area (cm²), use 1

Based on the Action Leakage Rate calculation package, the quantity of liquids passing through the primary geomembrane into the leak detection system will result in a very small head (0.17 mm) on the secondary geomembrane. Conservatively assuming that the secondary geomembrane is non-existent and the liquid can not drain laterally, the small head would act to drive the liquid vertically down into the GCL. Therefore, the head on the GCL will be 0.017 cm.

Given a thickness of the GCL as 0.3 inches, or 0.762 cm, the hydraulic gradient can be estimated as follows:

$$i = 0.017 \text{ cm} / 0.762 \text{ cm} = 0.022$$

Placing the hydraulic gradient, area, and the permeability into Equation 1, results in a flow rate. Using the permeability for the 0.5 pore volumes of the 50% GCL of approximately 2.0×10^{-9} cm/sec, results in the following:

$$Q = (2.0 \times 10^{-9} \text{ cm/sec}) \times (0.022) \times (1 \text{ cm}^2) = 4.4 \times 10^{-11} \text{ cm}^3/\text{sec} = 1.4 \times 10^{-3} \text{ cm}^3/\text{year}$$

Based on a typical GCL thickness of 0.762 cm and a porosity of 0.75, one pore volume per square centimeter can be estimated as follows:

$$\text{Pore volume} = 0.762 \text{ cm} \times 1 \text{ cm}^2 \times 0.75 = 0.57 \text{ cm}^3$$

The time for $\frac{1}{2}$ of a pore volume of pH 1 liquid to permeate through the GCL hydrated to a moisture content of 50% can be estimated as follows:

$$T_{1/2} = \frac{1}{2} V_p / Q$$

$$T_{1/2} = \frac{1}{2} \times 0.57 \text{ cm}^3 / 2.1 \times 10^{-3} \text{ cm}^3/\text{year} = 137 \text{ years}$$

Therefore, based on the boundary conditions and test data presented above, the permeant would require approximately 137 years to permeate $\frac{1}{2}$ of a pore volume of pH 1 liquid into the GCL hydrated to a moisture content of 50%. To permeate one pore volume through the GCL would require an additional approximately 34 years (based on 1.2×10^{-8} cm/sec at 1 pore volume) for a total of approximately 171 years.

Mr. Dane Finerfrock
31 August 2007
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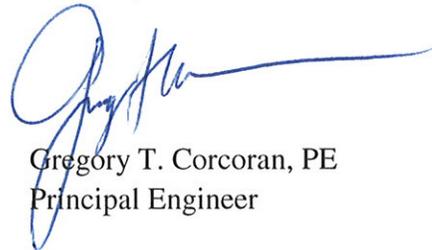
CONCLUSIONS

Based on the field demonstrations, the GCL can be hydrated to approximately 100% moisture content by directly spraying the top of the GCL with water prior to deploying the overlying geomembrane. Based on the hydraulic conductivity testing, GCL hydrated to a moisture content of 50% or more exhibits low permeability values when permeated with a pH 1 permeant. Based on the project conditions, GCL hydrated to 50% moisture content can effectively perform as a secondary barrier layer for this project.

DMC recommends that the GCL be hydrated to a minimum of 50% moisture content with a water truck prior to installing the overlying geomembrane. Based on an initial water content of 14% and a GCL mass per unit area of 1 lb/ft² (specifications require a minimum of 0.75 lb/ft²), hydration to 50% moisture content of the GCL will require approximately 0.043 gallons per square foot of water, or approximately 1,880 gallons per acre.

If you have any questions or require additional information, please contact the undersigned at (858) 674-6559.

Sincerely,



Gregory T. Corcoran, PE
Principal Engineer

Attachments: A – Photos
B – Field Documentation
C – Laboratory Test Data
D- Weather Data
Copies to: Harold R. Roberts – DMC

Attachment A
Photographs

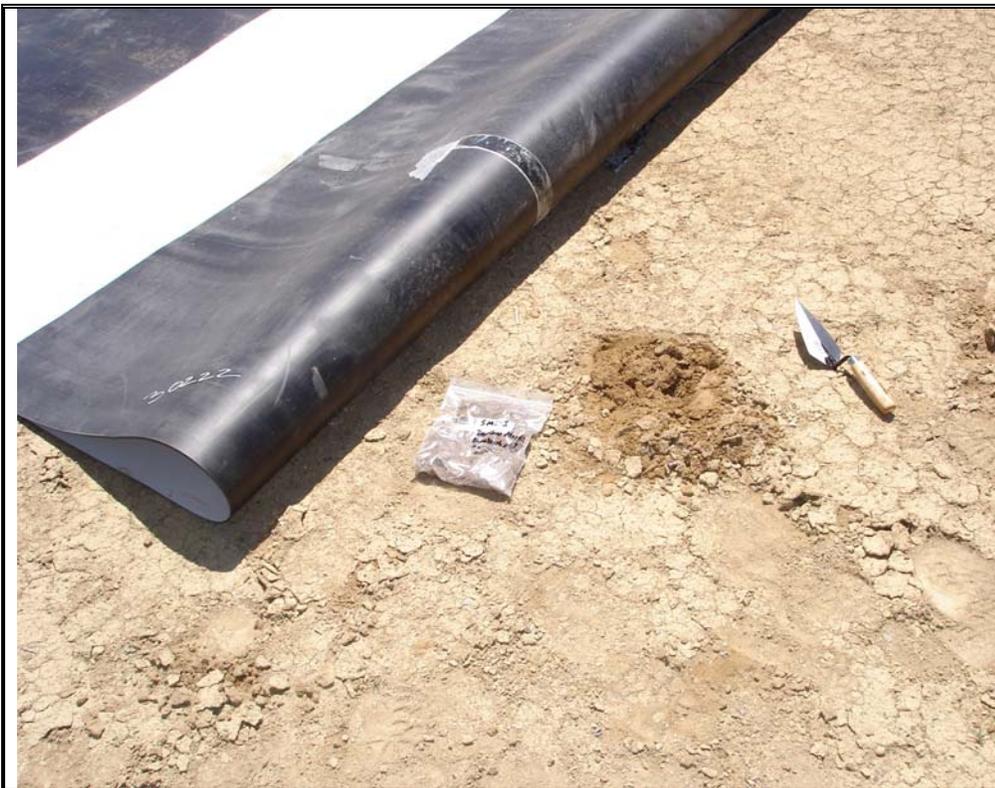
SITE PHOTOGRAPHS

SITE: White Mesa Mill – Cell 4A, Geosynthetic Clay Liner Hydration Demonstration
DATE: May - July 2007



PHOTOGRAPH 1:

FD-1, Placement of
GCL



PHOTOGRAPH 2:

FD-1, GCL Subgrade.

SITE PHOTOGRAPHS

SITE: White Mesa Mill – Cell 4A, Geosynthetic Clay Liner Hydration Demonstration
DATE: May - July 2007



PHOTOGRAPH 3:

FD-1, Geomembrane placed above GCL. 8-inch x 6-inch anchor trench along upslope edge.



PHOTOGRAPH 4:

FD-1, Sandbags placed along edges of geomembrane.

SITE PHOTOGRAPHS

SITE: White Mesa Mill – Cell 4A, Geosynthetic Clay Liner Hydration Demonstration
DATE: May - July 2007



PHOTOGRAPH 5:

FD-2, Hydration of subgrade prior to GCL installation

Attachment B
Field Documentation



DAILY FIELD REPORT

PROJECT: DENISON MINES

LOCATION: BLANDING, UTAH

PROJECT NO.: SC0349 TASK NO.: 02/05

DESCRIPTION: GCL HYDRATION TEST

DATE: 24 day MAY month 2007 year

CONTRACTOR: COMANCO

THURSDAY

WEATHER: PARTLY CLOUDY, HIGH ~ 70° F, LOW ~ 35° F

1000 - ARRIVE ON SITE. MEET JOSE HERNANDEZ OF COMANCO. CHECK IN WITH MIKE SPIELMAN OF DENISON MINES (DENISON).

1010 - GO TO CELL AREA WITH JOSE AND TWO LABORERS. ALSO TWO LABORERS/OPERATORS FROM DENISON ASSIST. A FORKLIFT WITH A STINGER IS UTILIZED TO HANDLE GEOSYNTHETICS.

1030 - HEALTH AND SAFETY TAILGATE MEETING. WORKING WITH HEAVY MACHINERY AND HEAVY LOADS DISCUSSED.

- JOSE AND WALTER LOCATE PAD AREA.

- A GEOSYNTHETIC CLAY LINER (GCL) ROLL IS OBTAINED. ROLL IS WRAPPED IN PLASTIC SHEET. ROLL WAS STORED OVER OTHER ROLLS. THE ROLL

NUMBER IS ~~200640~~ ^{(2) 240640} ^{(2) 200640} ^{(2) 200640} (CETCO BENTONITE ST.

- AN ^{(1) 10} 10-FOOT PANEL IS UNROLLED FROM THE GCL ROLL. SIX 1-FOOT SQUARE SAMPLES ARE OBTAINED FROM THE END SPACED APPROXIMATELY EVENLY ACROSS THE ROLL. INNER BENTONITE IS IN DRY GRANULAR FORM.

1100 - GCL PANEL IS CARRIED TO CELL ON TINES OF FORKLIFT. PANEL IS PLACED WOVEN-SIDE UP. PANEL IS AT LEAST 100-FT. FROM SIDE-

SLOPES. PANEL IS ORIENTED WITH UPSLOPE SIDE PERPENDICULAR TO LINE OF ACCESS RAMP. (PANEL TRIMMED TO BE 15x10-FT BEFORE PLACEMENT.) ^{(2) 24} ^{(2) 24}

1120 - A PANEL OF GEOMEMBRANE IS OBTAINED. PANEL IS ~12-FT BY 10-FT.

PANEL OBTAINED FROM ROLL #: 30222 (AS READ FROM WHITE-OUT MARKING) ^{(2) 18} ^{(2) 24}

PANEL IS CARRIED TO CELL BY HAND.

- NOTE: SOIL SUBGRADE SURFACE IS DRY AT TIME OF PLACEMENT, ALTHOUGH SITE RECEIVED SIGNIFICANT RAIN ON PREVIOUS DAY.

1130 - GEOMEMBRANE PANEL PLACED OVER GCL PANEL WITH WHITE SURFACE FACING UP. DOWN-SLOPE SIDE EXTENDS ~3-FT BEYOND GCL EDGE. TRANS-GRADIENT SIDES EXTEND ~3.5-FT BEYOND SIDES OF GCL.

1150 - AN ANCHOR TRENCH IS BEING DUG WITH SHOVELS. SOIL IS VERY COMPACT AND DIFFICULT TO DIG. (ANCHOR TRENCH ON UP-SLOPE SIDE OF GEOMEMBRANE ONLY.)

COPY TO: FILE

PER: *Chad Bird*

HRS: 5.0



DAILY FIELD REPORT

DATE: 24 day MAY month 67 year

1200 - OBTAIN THREE SOIL SAMPLES FOR LABORATORY MOISTURE CONTENT ANALYSIS. SAMPLES OBTAINED FROM APPROXIMATELY 1 TO 3 INCHES BELOW SURFACE.

1235 1300 - ANCHOR TRENCH EXCAVATION COMPLETE. HDPE @ UPSLOPE EDGE OF GEOMEMBRANE PLACED IN TRENCH AND SOIL REPLACED.

TIRE OF TRUCK USED TO COMPACT SOIL IN ANCHOR TRENCH. TWO LIFTS PLACED WITH ONE TIRE PASS EACH FOR COMPACTION.

1330 1345 - SANDBAGS PLACED ON PERIMETER OF GEOMEMBRANE (TRANSGRADIENT & DOWNGRADIENT SIDES). SANDBAGGING IS CONTINUOUS.

1345 - TEST PAD COMPLETE. COMANCO PUTS PLASTIC FILM BACK ON GCL ROLL AND PLACES ROLL BACK ON STOCKPILE. STOCKPILE COVERED.

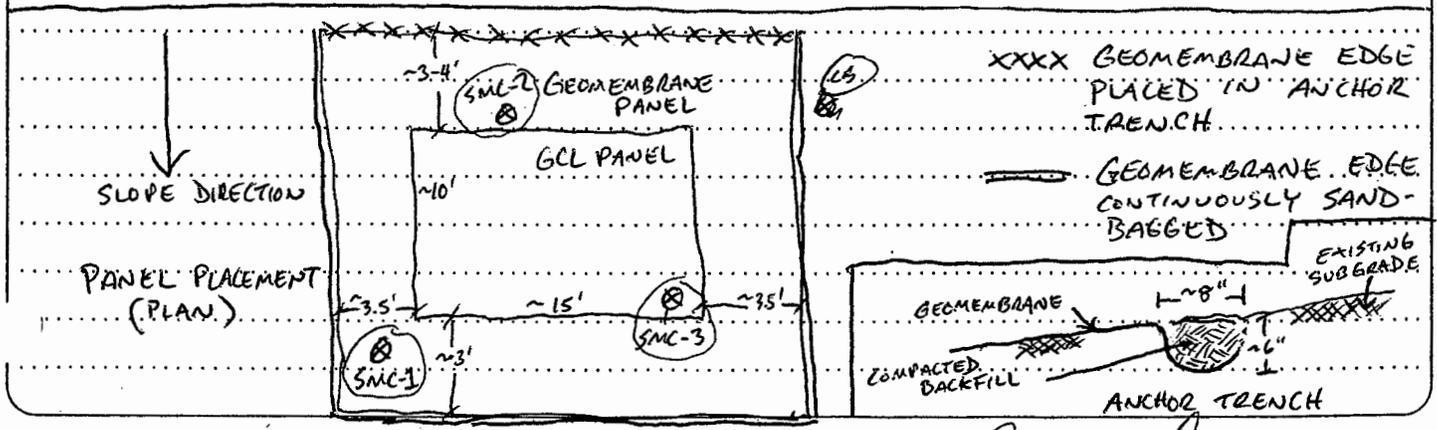
PREPARE SAMPLES FOR SHIPMENT. GCL SAMPLES LABELED GCL-1 THROUGH GCL-6. MOIST @ (SOIL SAMPLES LABELED MC-1 THROUGH MC-3). EACH GCL SAMPLE WRAPPED INDIVIDUALLY IN 9-MIL, 13 GALLON TRASH BAG. EXCESS AIR SUCKED FROM BAG. EACH BAG THEN TAPED TIGHTLY.

SPEND TIME SHOWING DENISON PERSONNEL SAMPLING AND SHIPPING PROCEDURES. MAKE COPIES OF SAMPLING AND SHIPPING FORMS. DISCUSS SAMPLING CONDITIONS. TURN OVER SAMPLES COLLECTED TODAY FOR SHIPMENT TOMORROW. SAMPLES SCHEDULED TO BE DELIVERED TO TRI ENVIRONMENTAL IN AUSTIN, TEXAS, ON TUESDAY, 29 MAY.

1450 - DECON WASH CAR

1455 - RADIATION CHECK CAR AND SELF, ALL CLEAR.

1500 - DEPART SITE. TRAVEL TO CORTEZ, COLORADO.



COPY TO: FILE

PER: [Signature]

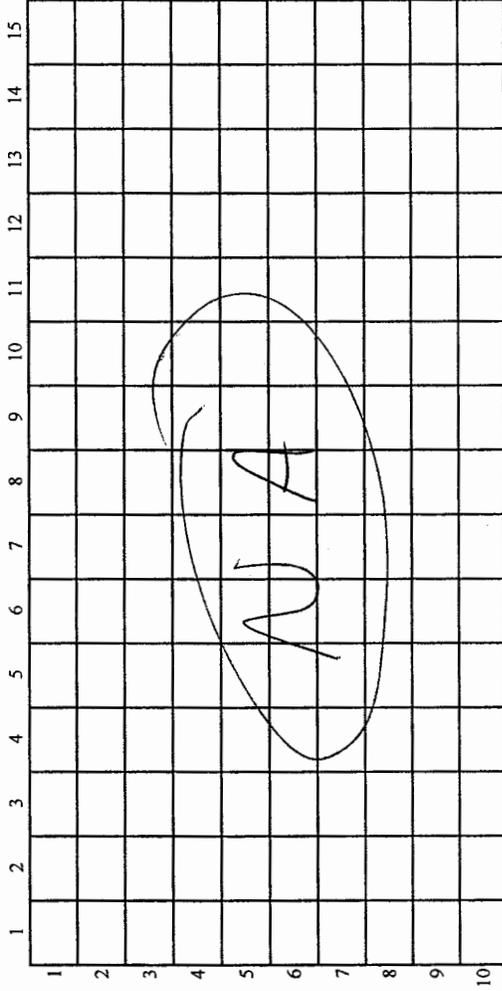
Sample Collection Field Form
GCL Hydration Demonstration

Date: 24 MAY 07 Time: ~10:45 Weather: PARTLY CLOUDY H ~ 70°F Name: CHAD BIRD (GEOSYNTEC)

Condition of Subgrade: Dry To Moist Wet Additional Subgrade Details: TOP INCH DRY/LOOSE. MOIST AND COMPACT BELOW.

| Sample ID | Description | Packaging/Shipping Details |
|-----------|---|---|
| GCL-1 | ~12" SQUARE, DRY, GRANULAR BENTONITE INSIDE | EACH WRAPPED IN 2 MIL, 13 GALON TRASH BAG. EXCESS AIR SUCKED OUT OF BAG. SEALED TIGHTLY WITH DUCT TAPE. |
| GCL-2 | | SHIPPED PRIORITY OVERNIGHT BY COURIER TO TRU ENVIRONMENTAL IN AUSTIN, TEXAS. |
| GCL-3 | | |
| GCL-4 | | |
| GCL-5 | | |
| GCL-6 | | |

Approximate GCL Sample Locations:



Repairs Performed:

SAMPLES TAKEN FROM END OF GCL
ROLL BEFORE PANEL CUT.

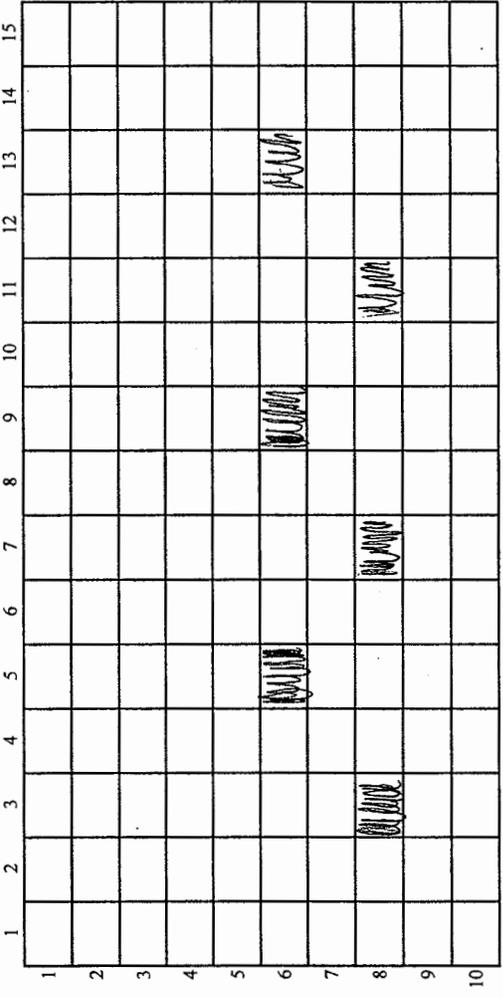
Sample Collection Field Form
GCL Hydration Demonstration

Date: 31 May 07 Time: 8:43 Weather: Sunny, L ~ 52°F H ~ 85°F Name: Avery Olsen

Condition of Subgrade: Dry Moist Wet Additional Subgrade Details: Slight sign of water

| Sample ID | Description | Packaging/shipment Details |
|-----------|---------------------------|--|
| GCL-7 | 1x1 square moist / dry | Each wrapped in bag excess air sucked out Bag Sealed with Tape |
| GCL-8 | little moist / mostly dry | Shipped Priority overnight by courier to Tri Environmental in Austin Texas |
| GCL-9 | Damp | |
| GCL-10 | little moist / mostly dry | |
| GCL-11 | little moist / mostly dry | |
| GCL-12 | Damp | |

Approximate GCL Sample Locations:



Repairs Performed:

N/A

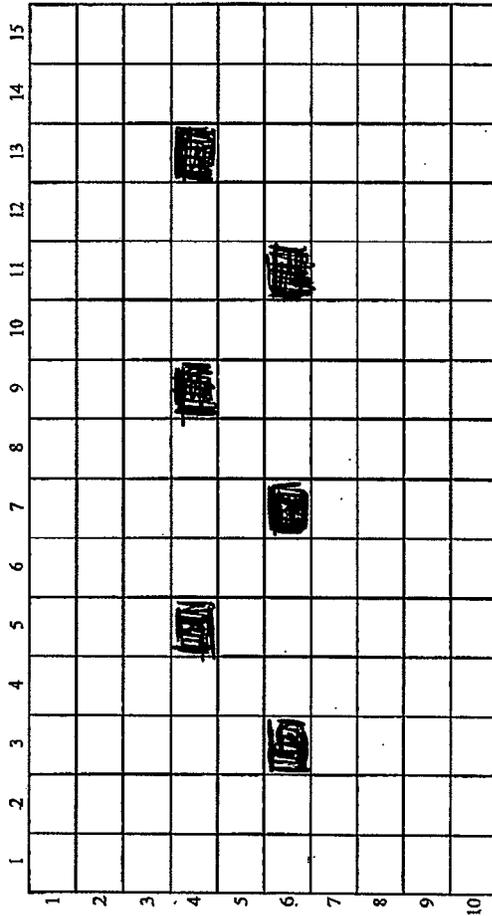
Sample Collection Field Form
GCL Hydration Demonstration

Date: 7 June 07 Time: 8:00 AM Weather: Partly Cloudy L ~ 88°F Name: Avery Olsen

Condition of Subgrade: Dry Moist Some Wet Additional Subgrade Details: Top inch Moist / Still little Loose

| Sample ID | Description | Packaging/Shipmt Details |
|-----------|-------------------------------|--|
| GCL-13 | Damp / little Dry | Each wrapped in a mil, 13 |
| GCL-14 | Damp / some Dry spots | Gallon trash Bags Excess Air |
| GCL-15 | One side/corner wet Rest Damp | Sucked out sealed with tape |
| GCL-16 | Dry with few damp spots | Shipped overnight to Tri Environmental |
| GCL-17 | Damp half Dry | in Austin Texas |
| GCL-18 | Damp some wet spots | |

Approximate GCL Sample Locations:



Repairs Performed:

N/A

Moved sand Bags to fit
Cover Better

Sample Collection Field Form
GCL Hydration Demonstration

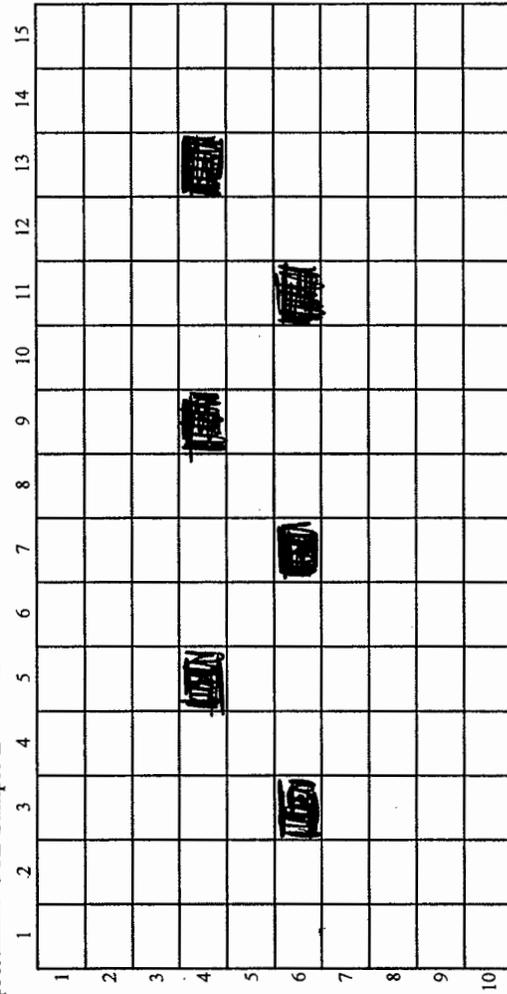
Date: 7 June 07 Time: 8:00 AM Weather: Partly Cloudy L ~ 38°F Name: Avery Olsen
 H ~ 66°F

Condition of Subgrade: Dry Additional Subgrade Details: TOP inch moist / Still little LOOSE

Moist Some Wet

| Sample ID | Description | Packaging/Shipment Details |
|-----------|-------------------------------|--|
| GCL-13 | Damp / little Dry | Each wrapped in a mil, 13 |
| GCL-14 | Damp / some Dry spots | Gallon trash Bags Excess Air |
| GCL-15 | one side/corner wet Rest Damp | Sucked out sealed with tape |
| GCL-16 | Dry with few damp spots | Shipped overnight to Tri Environmental |
| GCL-17 | Damp half Dry | in Austin Texas |
| GCL-18 | Damp some wet spots | |

Approximate GCL Sample Locations:



Repairs Performed:

N/A

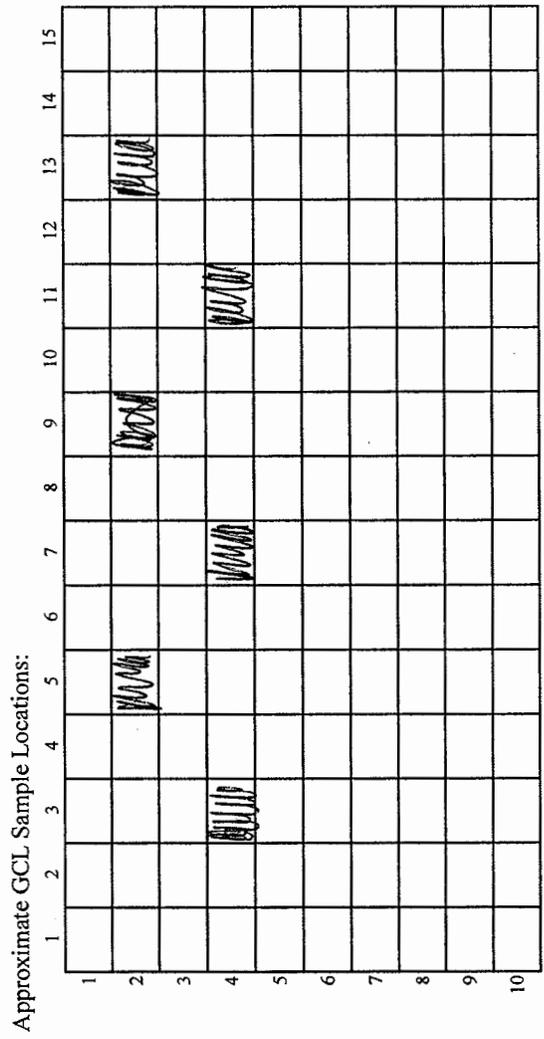
Moved sand Bags to fit
Cover Better

Sample Collection Field Form
 GCL Hydration Demonstration

Date: 6/14/07 Time: 10:30 Weather: Clear H ~ 87°F L ~ 54°F Name: Avery Olsea

Condition of Subgrade: Dry Moist TO Wet Additional Subgrade Details: Top 1 inch moist some damp/wet

| Sample ID | Description | Packaging/Shipment Details |
|-----------|--------------------------------|----------------------------|
| GCL-19 | Damp / some wet spots | Each wrapped in a Bag |
| GCL-20 | most moist / little damp spots | Excess air sucked out |
| GCL-21 | most damp / tiny moist spots | Sealed with tape shipped |
| GCL-22 | moist / some dry spots | overnight to TriEnviro. |
| GCL-23 | Damp / most moist | Austin Texas |
| GCL-24 | moist / some dry | |



Repairs Performed: NA

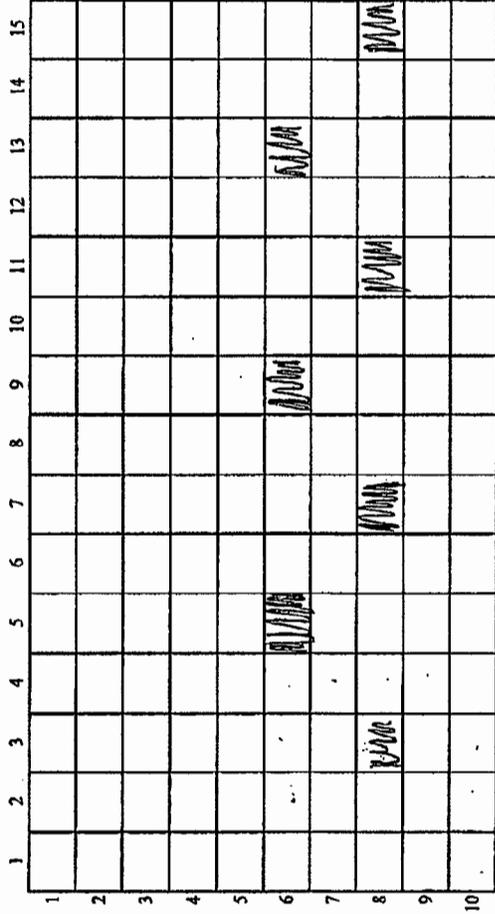
Sample Collection Field Form
GCL Hydration Demonstration

Date: 7/17/07 Time: 9:00 AM Weather: Cloudy ~81°F Name: Avery Olsen
263°F

Condition of Subgrade: Wet Moist Dry Additional Subgrade Details: little muddy / very damp

| Sample ID | Description | Packaging/Shipping Details |
|-----------|----------------------------------|---|
| GCL-1 | Moist / Dry Still Flaky | Each wrapped in Bags |
| GCL-2 | Moist / Damp little clay feeling | Excess Air sucked out |
| GCL-3 | Wet lots of clay texture | Sealed with Tape shipped overnight to Tri Enviro. |
| GCL-4 | Dry mostly flaky | Austin Texas |
| GCL-5 | Moist / little clay texture | |
| GCL-6 | Moist / mostly flaky | |

Approximate GCL Sample Locations:



Repairs Performed:

NA
NA

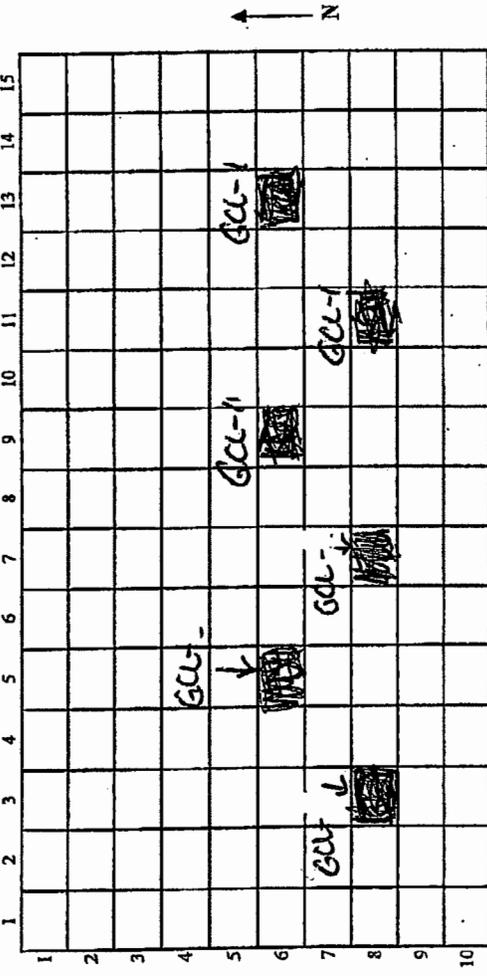
Sample Collection Field Form
GCL Hydration Demonstration

Date: 7/19/07 Time: 9:00 AM Weather: PARTLY CLOUDY, 2~ Name: Avery Olson

Condition of Subgrade: Dry Wet Moist Muddy

| Sample ID | Description | Additional Subgrade Details: | Packaging/Shipmt Details |
|-----------|---------------------------|------------------------------|---------------------------|
| GCL-100 | Clay good even texture | | Each wrapped in garbage |
| GCL-101 | Clay no sign of dry spots | | Bags sealed with tape |
| GCL-102 | Clay | | Shipped overnight to |
| GCL-103 | Clay | | Tri Service, Austin Texas |
| GCL-104 | Clay | | |
| GCL-105 | Clay | | |

Approximate GCL Sample Locations:



Repairs Performed:
N/A

Attachment C
Laboratory Test Data



TRI/ENVIRONMENTAL, INC.
A Texas Research International Company

01 June, 2007

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd.
Suite 200
San Diego, CA 92127
Ph 858-674-6559
gcorcoran@geosyntec.com

Subject: Denison Mines soil moisture content
(TRI Log #: E2279-24-09)

Dear Mr. Corcoran:

TRI is please to present this letter report in support of the Denison Mines project. Three soil samples received and tested for moisture content in accordance with ASTM D 2216. The results for SMC-1, SMC-2, and SMC-3 are 13.4%, 11.2%, and 12.3% respectively. If you have any questions regarding the data or the testing please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'John M. Allen'. The signature is written in a cursive, flowing style.

John M. Allen, E.I.T.
Director of the Geosynthetics Interaction Laboratory
TRI/Environmental, Inc.



June 1, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project: Denison Mines
TRI Job Reference Number: E2284-24-08
Material(s) Tested: 6 Cetco Bentomat ST GCL(s)
Test(s) Requested: Mass/Unit Area (ASTM D 5993)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

A handwritten signature in black ink that reads "John M. Allen". The signature is written in a cursive, flowing style.

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com



GCL TEST RESULTS
TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: Cetco Bentomat ST GCL
Bentonite - Mass/Unit Area (ASTM D 5993, result @ 0% M.C.)
TRI Log #: E2284-24-08

| PARAMETER | TEST REPLICATE NUMBER | | | | | | | | | | MEAN | STD. DEV. | |
|---|-----------------------|------|------|------|---|---|---|---|---|----|------|-------------|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | |
| Sample Identification: GCL - 1 | | | | | | | | | | | | | |
| Bentonite mass/unit area (lbs/ft ²) | 1.12 | 0.84 | 1.04 | 1.05 | | | | | | | | 1.01 | 0.12 |
| Moisture Content (%) | 15.9 | 16.5 | 17.2 | 17.6 | | | | | | | | 16.8 | 0.8 |
| Sample Identification: GCL - 2 | | | | | | | | | | | | | |
| Bentonite mass/unit area (lbs/ft ²) | 1.01 | 0.94 | 0.85 | 0.79 | | | | | | | | 0.90 | 0.10 |
| Moisture Content (%) | 13.5 | 11.6 | 13.9 | 13.1 | | | | | | | | 13.0 | 1.0 |
| Sample Identification: GCL - 3 | | | | | | | | | | | | | |
| Bentonite mass/unit area (lbs/ft ²) | 0.74 | 0.61 | 0.82 | 0.81 | | | | | | | | 0.75 | 0.10 |
| Moisture Content (%) | 12.6 | 14.5 | 15.5 | 15.1 | | | | | | | | 14.4 | 1.3 |
| Sample Identification: GCL - 4 | | | | | | | | | | | | | |
| Bentonite mass/unit area (lbs/ft ²) | 0.97 | 1.00 | 1.06 | 1.09 | | | | | | | | 1.03 | 0.05 |
| Moisture Content (%) | 8.9 | 12.4 | 10.7 | 14.3 | | | | | | | | 11.6 | 2.3 |
| Sample Identification: GCL - 5 | | | | | | | | | | | | | |
| Bentonite mass/unit area (lbs/ft ²) | 0.91 | 0.78 | 0.77 | 1.08 | | | | | | | | 0.89 | 0.14 |
| Moisture Content (%) | 12.1 | 11.0 | 14.5 | 14.9 | | | | | | | | 13.1 | 1.9 |
| Sample Identification: GCL - 6 | | | | | | | | | | | | | |
| Bentonite mass/unit area (lbs/ft ²) | 1.08 | 0.83 | 0.84 | 0.99 | | | | | | | | 0.94 | 0.12 |
| Moisture Content (%) | 17.0 | 16.3 | 13.5 | 13.2 | | | | | | | | 15.0 | 1.9 |

Note: The provided sample only allowed for four 4" x 8" coupons.

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.



June 7, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

Bill To:

<= Same

email: gcorcoran@geosyntec.com

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project: Denison Mines
TRI Job Reference Number: E2279-26-02
Material(s) Tested: 6 Cetco Bentomat ST GCL(s)
Test(s) Requested: Mass/Unit Area (ASTM D 5993)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

A handwritten signature in black ink that reads "John M. Allen". The signature is written in a cursive, flowing style.

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com



GCL TEST RESULTS
TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: Cetco Bentomat ST GCL
Bentonite - Mass/Unit Area (ASTM D 5993, result @ 0% M.C.)
TRI Log #: E2279-26-02

| PARAMETER | TEST REPLICATE NUMBER | | | | | | | | | | MEAN | STD. DEV. | |
|---|-----------------------|------|---|---|---|---|---|---|---|----|------|-------------|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | |
| Sample Identification: GCL - 7 | | | | | | | | | | | | | |
| Bentonite mass/unit area (lbs/ft ²) | 0.83 | 0.86 | | | | | | | | | | 0.85 | 0.02 |
| Moisture Content (%) | 24.5 | 23.1 | | | | | | | | | | 23.8 | 1.0 |
| Sample Identification: GCL - 8 | | | | | | | | | | | | | |
| Bentonite mass/unit area (lbs/ft ²) | 0.75 | 0.94 | | | | | | | | | | 0.85 | 0.13 |
| Moisture Content (%) | 26.2 | 27.2 | | | | | | | | | | 26.7 | 0.7 |
| Sample Identification: GCL - 9 | | | | | | | | | | | | | |
| Bentonite mass/unit area (lbs/ft ²) | 0.99 | 0.97 | | | | | | | | | | 0.98 | 0.01 |
| Moisture Content (%) | 21.3 | 22.5 | | | | | | | | | | 21.9 | 0.8 |
| Sample Identification: GCL - 10 | | | | | | | | | | | | | |
| Bentonite mass/unit area (lbs/ft ²) | 0.72 | 1.06 | | | | | | | | | | 0.89 | 0.24 |
| Moisture Content (%) | 23.6 | 23.6 | | | | | | | | | | 23.6 | 0.0 |
| Sample Identification: GCL - 11 | | | | | | | | | | | | | |
| Bentonite mass/unit area (lbs/ft ²) | 0.87 | 1.28 | | | | | | | | | | 1.08 | 0.29 |
| Moisture Content (%) | 21.3 | 20.1 | | | | | | | | | | 20.7 | 0.8 |
| Sample Identification: GCL - 12 | | | | | | | | | | | | | |
| Bentonite mass/unit area (lbs/ft ²) | 1.01 | 0.85 | | | | | | | | | | 0.93 | 0.11 |
| Moisture Content (%) | 20.8 | 19.2 | | | | | | | | | | 20.0 | 1.1 |

Note: The provided sample only allowed for two 4" x 8" coupons.

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.



June 13, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project: Denison Mines
TRI Job Reference Number: E2279-26-02
Material(s) Tested: 6 Cetco Bentomat ST GCL(s)
Test(s) Requested: Mass/Unit Area (ASTM D 5993)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

A handwritten signature in black ink, appearing to read 'John M. Allen', is written over a light gray rectangular background.

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com



GCL TEST RESULTS
TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: Cetco Bentomat ST GCL
Bentonite - Moisture Content, ASTM D 2216
TRI Log #: E2279-26-02

| PARAMETER | TEST REPLICATE NUMBER | | | | | | | | | | MEAN | STD. DEV. | |
|--|-----------------------|------|---|---|---|---|---|---|---|----|------|-----------|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | |
| Sample Identification: GCL - 13 | | | | | | | | | | | | | |
| Moisture Content (%) | 25.8 | 23.0 | | | | | | | | | | 24.4 | 2.0 |
| Sample Identification: GCL - 14 | | | | | | | | | | | | | |
| Moisture Content (%) | 27.1 | 28.2 | | | | | | | | | | 27.7 | 0.8 |
| Sample Identification: GCL - 15 | | | | | | | | | | | | | |
| Moisture Content (%) | 29.5 | 26.4 | | | | | | | | | | 28.0 | 2.2 |
| Sample Identification: GCL - 16 | | | | | | | | | | | | | |
| Moisture Content (%) | 26.1 | 27.1 | | | | | | | | | | 26.6 | 0.7 |
| Sample Identification: GCL - 17 | | | | | | | | | | | | | |
| Moisture Content (%) | 23.4 | 25.9 | | | | | | | | | | 24.7 | 1.8 |
| Sample Identification: GCL - 18 | | | | | | | | | | | | | |
| Moisture Content (%) | 27.4 | 26.0 | | | | | | | | | | 26.7 | 1.0 |

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.



TRI/ENVIRONMENTAL, INC.
A Texas Research International Company

01 June, 2007

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd.
Suite 200
San Diego, CA 92127
Ph 858-674-6559
gcorcoran@geosyntec.com

Subject: Denison Mines soil moisture content
(TRI Log #: E2279-24-09)

Dear Mr. Corcoran:

TRI is please to present this letter report in support of the Denison Mines project. Three soil samples received and tested for moisture content in accordance with ASTM D 2216. The results for SMC-1, SMC-2, and SMC-3 are 13.4%, 11.2%, and 12.3% respectively. If you have any questions regarding the data or the testing please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'John M. Allen'. The signature is written in a cursive, flowing style.

John M. Allen, E.I.T.
Director of the Geosynthetics Interaction Laboratory
TRI/Environmental, Inc.



June 13, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project: Denison Mines
TRI Job Reference Number: E2279-26-02
Material(s) Tested: 6 Cetco Bentomat ST GCL(s)
Test(s) Requested: Mass/Unit Area (ASTM D 5993)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com



GCL TEST RESULTS
 TRI Client: Geosyntec Consultants
 Project: Denison Mines

Material: Cetco Bentomat ST GCL
 Bentonite - Moisture Content, ASTM D 2216
 TRI Log #: E2279-26-02

| PARAMETER | TEST REPLICATE NUMBER | | | | | | | | | | MEAN | STD. DEV. | |
|--|-----------------------|------|---|---|---|---|---|---|---|----|------|-----------|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | |
| Sample Identification: GCL - 13 | | | | | | | | | | | | | |
| Moisture Content (%) | 25.8 | 23.0 | | | | | | | | | | 24.4 | 2.0 |
| Sample Identification: GCL - 14 | | | | | | | | | | | | | |
| Moisture Content (%) | 27.1 | 28.2 | | | | | | | | | | 27.7 | 0.8 |
| Sample Identification: GCL - 15 | | | | | | | | | | | | | |
| Moisture Content (%) | 29.5 | 26.4 | | | | | | | | | | 28.0 | 2.2 |
| Sample Identification: GCL - 16 | | | | | | | | | | | | | |
| Moisture Content (%) | 26.1 | 27.1 | | | | | | | | | | 26.6 | 0.7 |
| Sample Identification: GCL - 17 | | | | | | | | | | | | | |
| Moisture Content (%) | 23.4 | 25.9 | | | | | | | | | | 24.7 | 1.8 |
| Sample Identification: GCL - 18 | | | | | | | | | | | | | |
| Moisture Content (%) | 27.4 | 26.0 | | | | | | | | | | 26.7 | 1.0 |

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.



TRI/ENVIRONMENTAL, INC.
A Texas Research International Company

16 July, 2007

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd.
Suite 200
San Diego, CA 92127
Ph 858-674-6559
gcorcoran@geosyntec.com

Subject: Denison Mines soil moisture content
(TRI Log #: E2279-37-05)

Dear Mr. Corcoran:

TRI is please to present this letter report in support of the Denison Mines project. Three soil samples received and tested for moisture content in accordance with ASTM D 2216. The results for sample 1, 2, and 3 are 19.4%, 33.8%, and 24.1% respectively. If you have any questions regarding the data or the testing please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'John M. Allen'. The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

John M. Allen, E.I.T.
Director of the Geosynthetics Interaction Laboratory
TRI/Environmental, Inc.



July 20, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project: **Denison Mines**

TRI Job Reference Number: E2279-38-04

Material(s) Tested: 6 Cetco Bentomat ST GCL(s)

Test(s) Requested: Moisture Content (ASTM D 2216)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

A handwritten signature in black ink, appearing to read 'John M. Allen', written in a cursive style.

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com



GCL TEST RESULTS
TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: Cetco Bentomat ST GCL
Bentonite - Moisture Content, ASTM D 2216
TRI Log #: E2279-38-04

| PARAMETER | TEST REPLICATE NUMBER | | | | | | | | | | MEAN | |
|--------------------------------|-----------------------|---|---|---|---|---|---|---|---|----|------|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | |
| Sample Identification: GCL - 1 | | | | | | | | | | | | |
| Moisture Content (%) | 25.7 | | | | | | | | | | | 25.7 |
| Sample Identification: GCL - 2 | | | | | | | | | | | | |
| Moisture Content (%) | 25.5 | | | | | | | | | | | 25.5 |
| Sample Identification: GCL - 3 | | | | | | | | | | | | |
| Moisture Content (%) | 30.8 | | | | | | | | | | | 30.8 |
| Sample Identification: GCL - 4 | | | | | | | | | | | | |
| Moisture Content (%) | 24.5 | | | | | | | | | | | 24.5 |
| Sample Identification: GCL - 5 | | | | | | | | | | | | |
| Moisture Content (%) | 23.6 | | | | | | | | | | | 23.6 |
| Sample Identification: GCL - 6 | | | | | | | | | | | | |
| Moisture Content (%) | 25.9 | | | | | | | | | | | 25.9 |

Bentonite was granular for all samples.

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.



July 25, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project: Denison Mines
TRI Job Reference Number: E2279-40-04
Material(s) Tested: 6 Cetco Bentomat ST GCL(s)
Test(s) Requested: Moisture Content (ASTM D 2216)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

A handwritten signature in black ink that reads "John M. Allen". The signature is written in a cursive, flowing style.

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com



GCL TEST RESULTS
TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: Cetco Bentomat ST GCL
Bentonite - Moisture Content, ASTM D 2216
TRI Log #: E2279-40-04

| PARAMETER | TEST REPLICATE NUMBER | | | | | | | | | | MEAN | |
|---|-----------------------|---|---|---|---|---|---|---|---|----|------|-------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | |
| Sample Identification: GCL - 100 | | | | | | | | | | | | |
| Moisture Content (%) | 89.9 | | | | | | | | | | | 89.9 |
| Sample Identification: GCL - 101 | | | | | | | | | | | | |
| Moisture Content (%) | 104.8 | | | | | | | | | | | 104.8 |
| Sample Identification: GCL - 102 | | | | | | | | | | | | |
| Moisture Content (%) | 103.0 | | | | | | | | | | | 103.0 |
| Sample Identification: GCL - 103 | | | | | | | | | | | | |
| Moisture Content (%) | 100.0 | | | | | | | | | | | 100.0 |
| Sample Identification: GCL - 104 | | | | | | | | | | | | |
| Moisture Content (%) | 86.0 | | | | | | | | | | | 86.0 |
| Sample Identification: GCL - 105 | | | | | | | | | | | | |
| Moisture Content (%) | 102.0 | | | | | | | | | | | 102.0 |

Bentonite was granular for all samples.

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.



July 30, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project: Denison Mines
TRI Job Reference Number: E2279-40-04
Material(s) Tested: 6 Cetco Bentomat ST GCL(s)
Test(s) Requested: Moisture Content (ASTM D 2216)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com



GCL TEST RESULTS
TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: Cetco Bentomat ST GCL
Bentonite - Moisture Content, ASTM D 2216
TRI Log #: E2279-40-04

| PARAMETER | TEST REPLICATE NUMBER | | | | | | | | | | MEAN |
|---|-----------------------|---|---|---|---|---|---|---|---|----|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| Sample Identification: GCL - 106 | | | | | | | | | | | |
| Moisture Content (%) | 56.6 | | | | | | | | | | 56.6 |
| Sample Identification: GCL - 107 | | | | | | | | | | | |
| Moisture Content (%) | 45.3 | | | | | | | | | | 45.3 |
| Sample Identification: GCL - 108 | | | | | | | | | | | |
| Moisture Content (%) | 36.1 | | | | | | | | | | 36.1 |
| Sample Identification: GCL - 109 | | | | | | | | | | | |
| Moisture Content (%) | 44.4 | | | | | | | | | | 44.4 |
| Sample Identification: GCL - 110 | | | | | | | | | | | |
| Moisture Content (%) | 27.9 | | | | | | | | | | 27.9 |
| Sample Identification: GCL - 111 | | | | | | | | | | | |
| Moisture Content (%) | 28.3 | | | | | | | | | | 28.3 |

Bentonite was granular for all samples.

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.



31 August, 2007

Gregory T Corcoran, P.E.
Geosyntec Consultants, Inc.
10875 Rancho Bernardo Road
Suite 200
San Diego, California 92078
Phone: 858.674.6559
GCorcoran@Geosyntec.com

Subject: Preliminary Results for permeability of the Bentomat ST GCL for the Denison Mines Project, (TRI Log #: E2279-43-02)

Dear Mr. Corcoran,

The intent of letter is to provide you with the preliminary results for the compatibility of the Bentomat ST GCL with the hydrochloric acid solution for the Denison Mines Project. Representative specimens of the Bentomat ST GCL from roll number 6836, were selected for permeability testing per ASTM D 6766, Scenario 1. Specimens were pre-hydrated with de-ionized water to target bentonite moisture contents of 50, 75, 100 and 140%. Specimens were allowed to equilibrate prior to mounting in the triaxial permeameters.

Upon mounting in the permeameter the specimen was immediately tested for permeability without back pressure saturating the sample at the client's request. The cell pressure was 80 psi, the head water pressure was 77 psi and the tail water pressure was 75 psi. The specimens were permeated with a hydrochloric (HCl) acid solution with a pH of 1. Permeability with time and pore volumes is presented in the attached figures for each of the hydration conditions. One pore volume is approximately 50 ml.

Sincerely,

A handwritten signature in black ink, appearing to read 'John M. Allen'. The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

John M. Allen, E.I.T.
Director of the Geosynthetics Interaction Laboratory
TRI/Environmental, Inc.

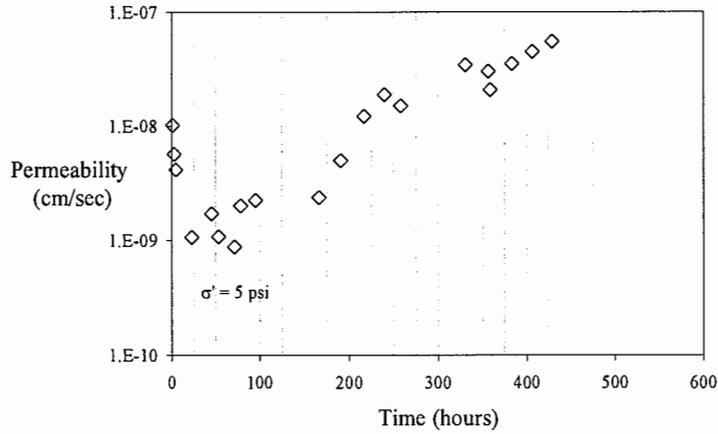


Figure 1 Permeability with time for 50% moisture content specimen with pH of 1 HCL Solution

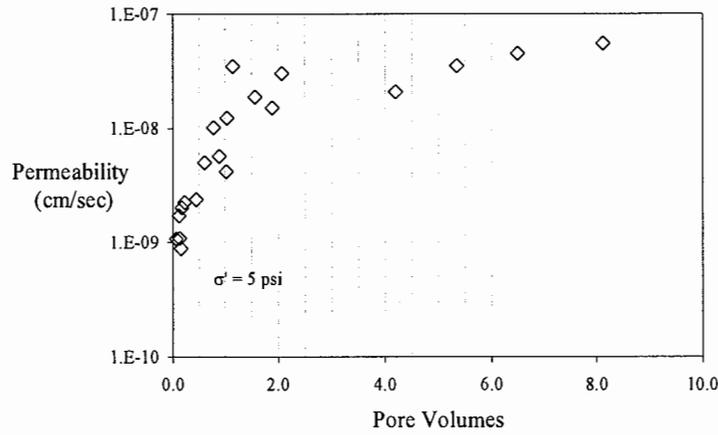


Figure 2 Permeability with pore volumes for 50% moisture content specimen with pH of 1 HCL Solution

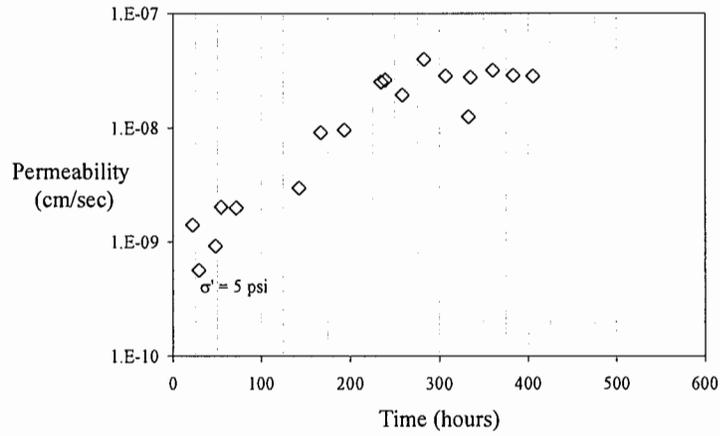


Figure 3 Permeability with time for 75% moisture content specimen with pH of 1 HCL Solution

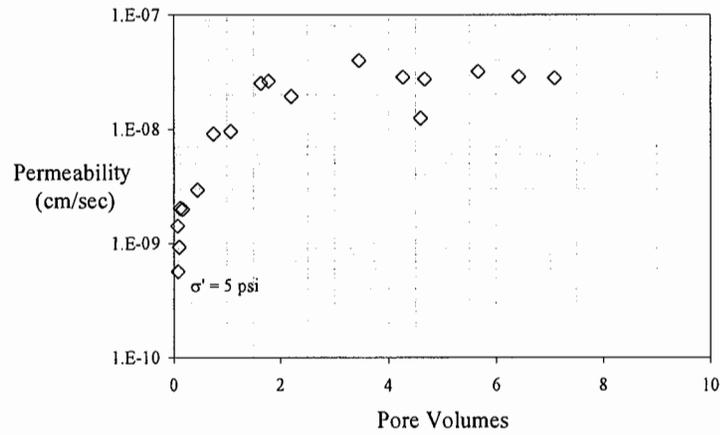


Figure 4 Permeability with pore volumes for 75% moisture content specimen with pH of 1 HCL Solution

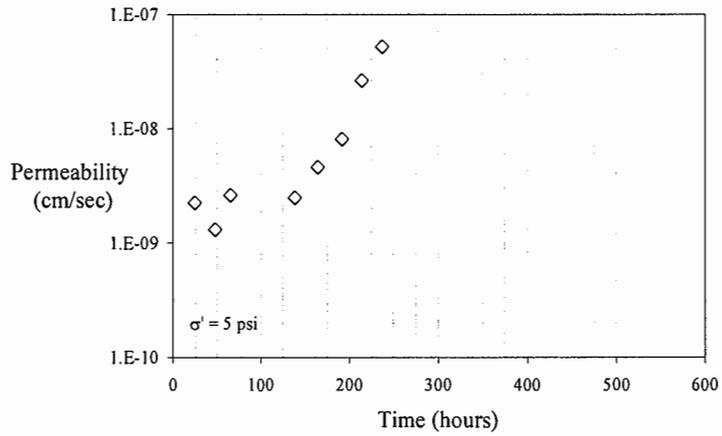


Figure 5 Permeability with time for 100% moisture content specimen with pH of 1 HCL Solution

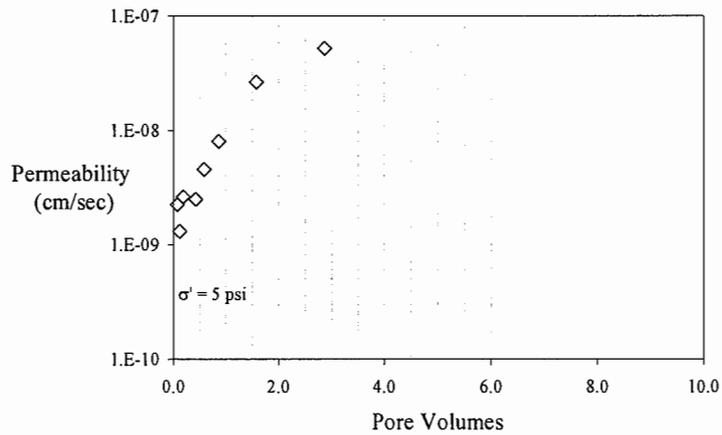


Figure 6 Permeability with pore volumes for 100% moisture content specimen with pH of 1 HCL Solution

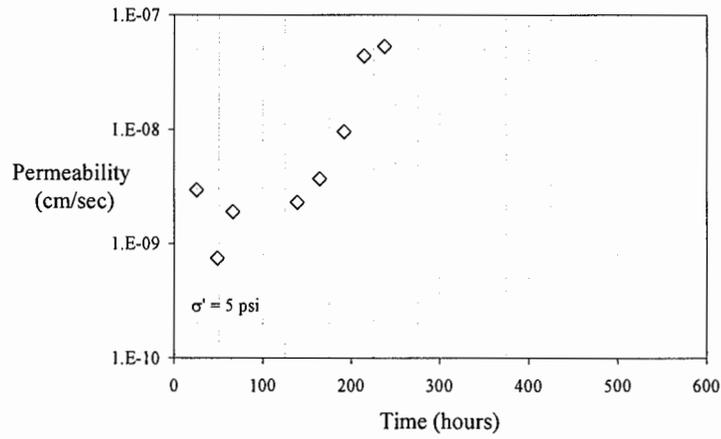


Figure 7 Permeability with time for 140% moisture content specimen with pH of 1 HCL Solution

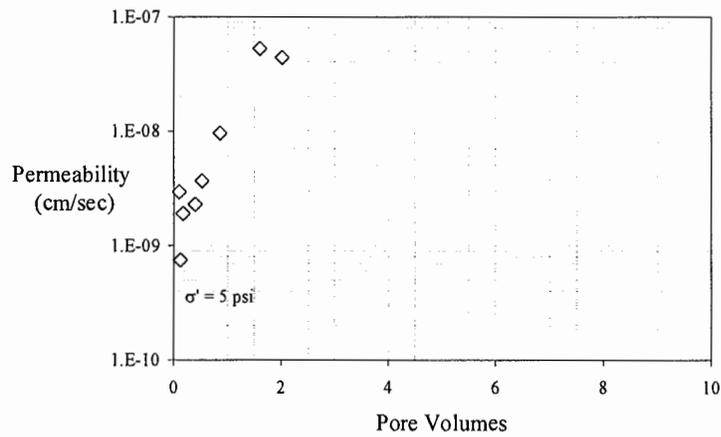


Figure 8 Permeability with pore volumes for 140% moisture content specimen with pH of 1 HCL Solution

Attachment D
Weather Data

Summary of Daily Weather
 May 1, 2007 - August 29, 2007
 GCL Hydration Demonstration
 White Mesa Mill - Cell 4A
 Blanding, Utah

Geosyntec Consultants

| Date | Maximum Temperature (°F) | Minimum Temperature (°F) | Average Temperature (°F) | Precipitation (inches) |
|-----------|--------------------------|--------------------------|--------------------------|------------------------|
| 5/1/2007 | 83 | 50 | 67 | 0.18 |
| 5/2/2007 | 59 | 46 | 53 | 0.6 |
| 5/3/2007 | 69 | 44 | 57 | 0 |
| 5/4/2007 | 63 | 40 | 52 | T |
| 5/5/2007 | 45 | 32 | 39 | 0.15 |
| 5/6/2007 | 53 | 31 | 42 | 0 |
| 5/7/2007 | 67 | 33 | 50 | 0 |
| 5/8/2007 | 73 | 36 | 55 | 0 |
| 5/9/2007 | 78 | 43 | 61 | 0 |
| 5/10/2007 | 82 | 48 | 65 | 0 |
| 5/11/2007 | 85 | 52 | 69 | 0 |
| 5/12/2007 | 86 | 55 | 71 | 0 |
| 5/13/2007 | 85 | 59 | 72 | T |
| 5/14/2007 | 85 | 52 | 69 | 0 |
| 5/15/2007 | 84 | 50 | 67 | 0 |
| 5/16/2007 | 81 | 49 | 65 | 0 |
| 5/17/2007 | 79 | 46 | 63 | T |
| 5/18/2007 | 80 | 49 | 65 | 0 |
| 5/19/2007 | 83 | 50 | 67 | 0 |
| 5/20/2007 | 81 | 50 | 66 | T |
| 5/21/2007 | 79 | 50 | 65 | 0 |
| 5/22/2007 | 67 | 39 | 53 | 0.12 |
| 5/23/2007 | 57 | 38 | 48 | 0.09 |
| 5/24/2007 | 66 | 33 | 50 | 0 |
| 5/25/2007 | 77 | 46 | 62 | 0 |
| 5/26/2007 | 80 | 49 | 65 | 0 |
| 5/27/2007 | 85 | 53 | 69 | 0 |
| 5/28/2007 | 84 | 51 | 68 | 0 |
| 5/29/2007 | 84 | 52 | 68 | 0 |
| 5/30/2007 | 79 | 43 | 61 | 0 |
| 5/31/2007 | 85 | 48 | 67 | 0 |
| | | | | |
| 6/1/2007 | 83 | 53 | 68 | 0 |
| 6/2/2007 | 86 | 56 | 71 | 0 |
| 6/3/2007 | 87 | 56 | 72 | 0 |
| 6/4/2007 | 88 | 59 | 74 | 0 |
| 6/5/2007 | 88 | 58 | 73 | 0 |
| 6/6/2007 | 72 | 46 | 59 | 0 |
| 6/7/2007 | 69 | 35 | 52 | 0 |
| 6/8/2007 | 79 | 47 | 63 | 0 |
| 6/9/2007 | 86 | 50 | 68 | 0 |
| 6/10/2007 | 88 | 53 | 71 | 0 |
| 6/11/2007 | 82 | 55 | 69 | 0 |
| 6/12/2007 | 77 | 49 | 63 | 0.38 |
| 6/13/2007 | 85 | 49 | 67 | 0 |

Summary of Daily Weather
 May 1, 2007 - August 29, 2007
 GCL Hydration Demonstration
 White Mesa Mill - Cell 4A
 Blanding, Utah

Geosyntec Consultants

| Date | Maximum Temperature (°F) | Minimum Temperature (°F) | Average Temperature (°F) | Precipitation (inches) |
|-----------|--------------------------|--------------------------|--------------------------|------------------------|
| 6/14/2007 | 92 | 57 | 75 | 0 |
| 6/15/2007 | 96 | 62 | 79 | 0 |
| 6/16/2007 | 97 | 63 | 80 | 0 |
| 6/17/2007 | 92 | 61 | 77 | 0 |
| 6/18/2007 | 92 | 59 | 76 | 0 |
| 6/19/2007 | 93 | 61 | 77 | 0 |
| 6/20/2007 | 95 | 63 | 79 | 0 |
| 6/21/2007 | 97 | 63 | 80 | 0 |
| 6/22/2007 | 96 | 62 | 79 | 0 |
| 6/23/2007 | 97 | 63 | 80 | 0 |
| 6/24/2007 | 95 | 61 | 78 | 0 |
| 6/25/2007 | 92 | 60 | 76 | 0 |
| 6/26/2007 | 95 | 60 | 78 | 0 |
| 6/27/2007 | 93 | 60 | 77 | 0 |
| 6/28/2007 | 93 | 62 | 78 | 0 |
| 6/29/2007 | 95 | 62 | 79 | 0 |
| 6/30/2007 | 95 | 63 | 79 | 0 |
| 7/1/2007 | 98 | 62 | 80 | 0 |
| 7/2/2007 | 100 | 64 | 82 | 0 |
| 7/3/2007 | 101 | 63 | 82 | 0 |
| 7/4/2007 | 100 | 64 | 82 | 0 |
| 7/5/2007 | 95 | 64 | 80 | 0 |
| 7/6/2007 | 93 | 65 | 79 | 0 |
| 7/7/2007 | 92 | 62 | 77 | 0 |
| 7/8/2007 | 97 | 64 | 81 | T |
| 7/9/2007 | 93 | 64 | 79 | 0 |
| 7/10/2007 | 99 | 65 | 82 | 0 |
| 7/11/2007 | 92 | 68 | 80 | T |
| 7/12/2007 | 87 | 63 | 75 | 0 |
| 7/13/2007 | 90 | 62 | 76 | 0 |
| 7/14/2007 | 96 | 60 | 78 | 0 |
| 7/15/2007 | 95 | 60 | 78 | 0 |
| 7/16/2007 | 97 | 61 | 79 | T |
| 7/17/2007 | 98 | 69 | 84 | 0 |
| 7/18/2007 | 97 | 67 | 82 | 0 |
| 7/19/2007 | 97 | 65 | 81 | T |
| 7/20/2007 | 90 | 61 | 76 | 0 |
| 7/21/2007 | 91 | 67 | 79 | 0 |
| 7/22/2007 | 92 | 63 | 78 | 0.03 |
| 7/23/2007 | 93 | 65 | 79 | 0 |
| 7/24/2007 | 93 | 62 | 78 | 0 |
| 7/25/2007 | 92 | 62 | 77 | 0 |
| 7/26/2007 | 88 | 64 | 76 | 0.31 |
| 7/27/2007 | 92 | 61 | 77 | 0.23 |

Summary of Daily Weather
 May 1, 2007 - August 29, 2007
 GCL Hydration Demonstration
 White Mesa Mill - Cell 4A
 Blanding, Utah

Geosyntec Consultants

| Date | Maximum Temperature (°F) | Minimum Temperature (°F) | Average Temperature (°F) | Precipitation (inches) |
|-----------|--------------------------|--------------------------|--------------------------|------------------------|
| 7/28/2007 | 87 | 59 | 73 | 0.34 |
| 7/29/2007 | 92 | 60 | 76 | 0 |
| 7/30/2007 | 89 | 60 | 75 | 0.14 |
| 7/31/2007 | 90 | 61 | 76 | 0 |
| 8/1/2007 | 88 | 62 | 75 | 0.04 |
| 8/2/2007 | 85 | 63 | 74 | 0.05 |
| 8/3/2007 | 81 | 62 | 71.5 | 0.06 |
| 8/4/2007 | 82 | 65 | 73.5 | 0.06 |
| 8/5/2007 | 85 | 64 | 74.5 | 0.01 |
| 8/6/2007 | 84 | 62 | 73 | 0 |
| 8/7/2007 | 85 | 61 | 73 | 0 |
| 8/8/2007 | 87 | 56 | 71.5 | 0 |
| 8/9/2007 | 88 | 57 | 72.5 | 0 |
| 8/10/2007 | 90 | 61 | 75.5 | 0 |
| 8/11/2007 | 92 | 57 | 74.5 | 0 |
| 8/12/2007 | 95 | 62 | 78.5 | 0.02 |
| 8/13/2007 | 91 | 63 | 77 | 0.06 |
| 8/14/2007 | 90 | 64 | 77 | 0.05 |
| 8/15/2007 | 88 | 66 | 77 | 0.05 |
| 8/16/2007 | 91 | 60 | 75.5 | 0.02 |
| 8/17/2007 | 93 | 63 | 78 | 0 |
| 8/18/2007 | 92 | 64 | 78 | 0 |
| 8/19/2007 | 91 | 61 | 76 | 0 |
| 8/20/2007 | 90 | 56 | 73 | 0 |
| 8/21/2007 | 92 | 59 | 75.5 | 0 |
| 8/22/2007 | 92 | 58 | 75 | 0 |
| 8/23/2007 | 91 | 59 | 75 | 0.1 |
| 8/24/2007 | 91 | 57 | 74 | 0 |
| 8/25/2007 | 93 | 55 | 74 | 0 |
| 8/26/2007 | 90 | 64 | 77 | 0 |
| 8/27/2007 | 76 | 57 | 66.5 | 0.18 |
| 8/28/2007 | 82 | 57 | 69.5 | 0 |
| 8/29/2007 | 89 | 57 | 73 | 0 |

Sources:

5/1/2007 - 7/31/2007:

NOAA, 2007, "Record of Climatological Observations for Blanding, Utah." Available at www.noaa.gov

8/1/2007 - 8/29/2007:

Available at www.weather.com, Monthly Weather for Blanding, Utah.

Station: BLANDING

State: UT County: SAN JUAN Standard Time: MOUNTAIN

Record of Climatological Observations

These data are quality controlled and may not be identical to the original observations

Observation Time Temperature: 2300 Precipitation: 2300

(LST)

| P r e c l i m i n a r y | M o n t h | Temperature (°F) | | | Precipitation (see **) | | Monthly Temperature (°F) | | | Monthly Precipitation | | | | | | | | |
|-------------------------|------------|------------------------------------|-------|-------|---|---------------------------------------|--------------------------|---------|--------|-----------------------|-------------|--------|----------|------|------|------|------|------|
| | | 24 hrs. ending at observation time | Max. | Min. | at observation time | At Observation Time | Mean | Highest | Lowest | Monthly CDD | Monthly HDD | Precip | Snowfall | | | | | |
| | Year | Daily | Daily | Daily | Rain, melted snow, etc. (inches & hundredths) | F Snow, ice pellets (inches & tenths) | Mean Temp | Temp | Temp | Mean | Max | Min | Mean | Temp | Temp | Temp | Temp | Temp |
| * | 2007/05/1 | 83 | 50 | 67 | 0.18 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/2 | 59 | 46 | 53 | 0.60 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/3 | 69 | 44 | 57 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/4 | 63 | 40 | 52 | T | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/5 | 45 | 32 | 39 | 0.15 | T | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/6 | 53 | 31 | 42 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/7 | 67 | 33 | 50 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/8 | 73 | 36 | 55 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/9 | 78 | 43 | 61 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/10 | 82 | 48 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/11 | 85 | 52 | 69 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/12 | 86 | 55 | 71 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/13 | 85 | 59 | 72 | T | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/14 | 85 | 52 | 69 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/15 | 84 | 50 | 67 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/16 | 81 | 49 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/17 | 79 | 46 | 63 | T | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/18 | 80 | 49 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/19 | 83 | 50 | 67 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/20 | 81 | 50 | 66 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/21 | 79 | 50 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/22 | 67 | 39 | 53 | 0.12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/23 | 57 | 38 | 48 | 0.09 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/24 | 66 | 33 | 50 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/25 | 77 | 46 | 62 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/26 | 80 | 49 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/27 | 85 | 53 | 69 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/28 | 84 | 51 | 68 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/29 | 84 | 52 | 68 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 2007/05/30 | 79 | 43 | 61 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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| | | | | | | | |
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| Yesterday | Today | Tomorrow | Radar Map | Hour-by-Hour | Weekend | 10-Day | Mont |
|-----------|-------|----------|-----------|--------------|---------|--------|------|

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| Previous Month | | August | | | | | Next Month | |
|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------|--|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat | | |
| | | | 1 | 2 | 3 | 4 | | |
| | | | OBSERVED | OBSERVED | OBSERVED | OBSERVED | | |
| | | | Hi 88°F Lo 62°F | Hi 85°F Lo 63°F | Hi 81°F Lo 62°F | Hi 82°F Lo 65°F | | |
| | | | Precip (in) 0.04in. | Precip (in) 0.05in. | Precip (in) 0.06in. | Precip (in) 0.06in. | | |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 | | |
| OBSERVED | | |
| Hi 85°F Lo 64°F | Hi 84°F Lo 62°F | Hi 85°F Lo 61°F | Hi 87°F Lo 56°F | Hi 88°F Lo 57°F | Hi 90°F Lo 61°F | Hi 92°F Lo 57°F | | |
| Precip (in) 0.01in. | Precip (in) 0in. | | |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | | |
| OBSERVED | | |
| Hi 95°F Lo 62°F | Hi 91°F Lo 63°F | Hi 90°F Lo 64°F | Hi 88°F Lo 66°F | Hi 91°F Lo 60°F | Hi 93°F Lo 63°F | Hi 92°F Lo 64°F | | |
| Precip (in) 0.02in. | Precip (in) 0.06in. | Precip (in) 0.05in. | Precip (in) 0.05in. | Precip (in) 0.02in. | Precip (in) 0in. | Precip (in) 0in. | | |

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| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|---|-------------------------------------|----------------------------------|
| OBSERVED | OBSERVED | OBSERVED | OBSERVED | OBSERVED | OBSERVED | OBSERVED |
| Hi 91°F Lo 61°F | Hi 90°F Lo 56°F | Hi 92°F Lo 59°F | Hi 92°F Lo 58°F | Hi 91°F Lo 59°F | Hi 91°F Lo 57°F | Hi 93°F Lo 55°F |
| Precip (in) 0in. | Precip (in) 0in. | Precip (in) 0in. | Precip (in) 0in. | Precip (in) 0.01in. | Precip (in) 0in. | Precip (in) 0in. |
| 26 | 27 | 28 | 29 | Today | 31 | |
| OBSERVED | OBSERVED | OBSERVED | OBSERVED | | | |
| Hi 90°F Lo 64°F | Hi 76°F Lo 57°F | Hi 82°F Lo 57°F | Hi 89°F Lo 57°F | Hi - Lo 60°F | Hi 85°F Lo 59°F | |
| Precip (in) 0in. | Precip (in) 0.18in. | Precip (in) 0in. | Precip (in) 0in. | Precip 20 % | Precip 30 % | |
| | | | | Indoor Heating Need -10 Very High | Indoor Cooling Need 1 Low | |

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- 77 - 79 degrees
- 80+ degrees

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